## MOMEN INVENTORS EQUAL MEN



HERE is no quuestion of the fact that the women are going in for mechanics. Their inventions prove it; and they are taking out a greater number of patents every year. When they first ventured with some timidity into the inventive field, they devoted their attention almost exclusively to things which had to do with their every-day environment, particularly dress and household matters. It is

different nowadays.

More than 6,000 patents have been taken out by women up to the present date. They cover the widest imaginable field, and not a few of them are of great industrial value. Two represent inventions which are of the kind that mark steps in the upward progress of civilization.

One of these is the Coston light-a pyrotechnic contrivance for night signaling purposes, which is in use on board ships and by life-saving patrols all over the world. A Washington woman, after whom it was named, originated it. The other contrivance is the familiar ice cream freezer.

The ice cream freezer may not seem to be of great importance in our civilization, but how should we get along without it? Nothing else has ever been devised that would serve the purpose. The machine today is almost exactly the same as the original, which was patented as long ago as 1843 by Mrs. Nancy M. Johnson, the widow of a naval officer, residing in Philadelphia. Her model is preserved at the Patent Office among its most highly prized treasures. Mrs. Johnson sold her invention for \$1,500. If she had held on to it, she might have made \$1,000,000 out of it.

ent was granted in this country was Mary Kles, of Connecticut -a State which has more inventors in proportion to population than any other in the Union. Her idea (dated 1809) was for weaving straw with silk thread. The gentler sex had not become creative at that time, and six years elapsed before the second patent was issued to one of its members, named Mary Brush, for an im-

Nearly all of the early patents granted to women were for improvements in articles of clothing or domestic usefulness, such as cooking utensils, picture frames, etc. But suddenly a Philadelphia woman started the ball rolling in a new direction by inventing a beehive. Another, from the same city, popped up with a railway car-heater. A California woman suggested a novelty in the way of a dumping wagon; a Georgia woman offered a plow, and an Ohlo woman a came forward with a life-raft, and a Pittsburg woman with a car-wheel. Feminine ideas had began to expand, and presently a Chicago woman took out a patent on a process for concentrating ores, and another from Buffalo produced a machine for manu-

Let it not be said that women do not have practical ideas, they have proved it by their inventions. Who was it who first hit upon the notion of sylinble types-types, that is to say, which represent syllables, for printing purposes, instead of letters? Inquire at the Patent Office, and you will find that it was a woman. Who originated the typewriter for the blind? -a machine which has proved a godsend to the afflicted. Woman, Who patented a state for the blind, on which they could write without see-

ing? Again, a woman. Of course, they have patented a great many trivial things, and some foolish ones. So likewise have the men. An examination of the files of the Patent Office will show that a great majority of all inventions are not of a practical character. It is the It was not granted.

堤 How to Make Dimples.

HE first woman to whom a pat- colorless shellac varnish mixed with glue. With the point of a pencil or pen-holder press the flesh, holding it until the substance on the face be comes dry and hard. The stiffened indentation thus retains the exact shape of a dimple, and a little face-powder dusted over it will conceal the varnish and glue compound. Some care must be observed not to smile too suddenly, or the dimple may be broken. But with ordinary usage it



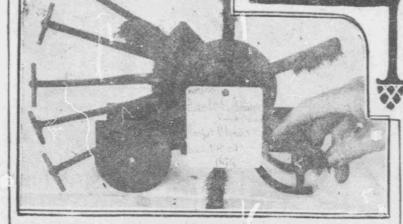
1000 LOCOMOTIVE WHICH DUMPS IT'S INDERS ON THE TRACK BEHIND. size, so that they produce only worker bees, and no drones.

ORIGINAL ICE-CREAM FREEZER Invented by NANCY M. JOHNSON, PHILADELPHIA.

will retain its shape a whole evening, if not longer." The inventor adds that her method is "not so available for "thin or bony faces."

姓 姓 One by Farmer's Daughter.

One of the most valuable of woexceptional one that proves actually men's inventions up to date is a mauseful. Why, then, should anybody be chine for making comb-foundation for surprised to find that a woman has beehlves, patented by Frances A. Dunapplied for a patent on a method of ham. It saves the bees half the labor meking "artificial dimples?"-though of comb-construction by turning out wax sheets which, suspended in the hives, serve as a basis to build the combs upon. But the most remark-Here are the directions: "Smear a able thing about it, perhaps, is that small spot on cheek or chin with all the cells are made of "worker"



CAPPET CLEANER. Invented by SAPAH STEARNS

CHINE FORMAKING COMB OUNDATION FOR BEEHIVES

> RANCES A. DUNHAM. hem masquerades as a window-cleaner; another is a spring-bed under ordinary circumstances. A thermometer that gives an alarm of fire when the temperature rises above a certain point is a woman's idea, and so likewise is a scheme for making the doors and shutters of a dwelling fireproof, pede escape, whatever happens to the rest of the house.

> > Things For Men.

It is noticeable that the inventions of women in a large percentage of instances have the comfort of men in view. For instance, it is a woman who has patent a device for lowering a latchkey from a window." This ought to be a great help to husbands kept out late at night at a lodge meeting or by the duty of sitting up with a sick friend. Other things in the same general line as they come to market, are packed in are a combined beer and water cooler. a lantern that can be turned into a dinner-pail, a perspiration-proof shirt, a pocket spittoon for tobacco-chewers. a moustache spoon, several styles of mustache guards, to keep the masculine ornament out of the soup or coffee, and "mustache trainers," to be

Who is there that has not admired

the ingenious method by which eggs,

neat pasteboard trays, each one oc-

cupying a separate compartment? It

was a farmer's daughter who hit upon

luggage-carrier that fits on the front

of a bicycle. It was a woman who in-

vented this. To whom is to be at-

tributed the kind of paper bag in com-

mon use which is made with a bottom

like that of a satchel? Again, a wom-

It was a woman who invented the

pocket sewing machine an entirely

practical contrivance, which may be

carried in the pocket, and which does

Sally A. Rosenthal, of Dubuque, Iowa,

attached to it. Apparently, the rea-

son why it has never come into gen-

eral use is simply that, when women

want to sew, they usually prefer to sit

down to it seriously, rather than to

do it incidentally to other things.

说 说 A Long-Felt Want.

One woman has filled a long-felt want by devising a window sash that will not stick. Another offers a trunk that may be transformed into a bed.

Yet another has patented a trunk that

can be folded up when empty. These

an-Miss M. E. Knight by name.

this idea. Then there is the familiar

A Chicago woman has invented a

ROCKING CHAIR FOR BALD-HEADED MEN. MARY WOODWARD. Invented by

> scarf-jewel which is made to revolve by a clockwork mechanism inside of the necktie. For keeping "pants" in contrivances devised by persons of gentler sex, and one more elaborate affair of the kind is described as & "garment stretcher that simulates the human form." Women, too, have patented several "improvements in cigurs," one of which consists in making the "weeds" of eucalyptus leaves instead of tobacco: Cigars of this kind, the inventor claims, leave a clean and pleasant taste in the mouth -so much nicer than the disgusting herb nicotian. And, if desired, the may be crumbled up and used for

Some of Their Inventions.

So many interesting things have been invented by women, however, that it is impossible to mention more than a few of them here. Among them are a self-heating sadiron, an inplement for holding green corn when one eats it, a refrigerator ing shelves (surely an excellent idea), a folding car-step to render access to railroad cars easier for the fat and elderly, an egg cup that fits an egg of any size, a deep-sea telescope for examining the ocean bottom for wrecks, a robber-proof chicken coop, a musical skipping rope, a trap for bedbugs, a pair of scissors and tape measure combined, a step-ladder that is an ironing board in disguise, a sofa that can be transformed into a bathtub, a machine for hanging wall paper, a rocking chair with automatic attachment for keeping the files off the heads of a hald-headed man, a means of detecting tampering with sealed envelopes, a combined collar and necktie, a door mat that is also a card receiver, and a carriage with one wheel.

Betsy Jane Martin, of Pomona, Kan has invented a fire-proof asbestos suit of clothes, sewn with asbestos thread; and Augusta M. Dodgers, of Brooklyn, has patented a locomotive which dumps all of its cinders on the

## MILLIONS OF STARS Surround the W

very good sewing, indeed. One may see the original model in the Patent goes to make up his being, and in every tures.

Office in Washington, with the name every smallest speck of protoplasm that read some of Mr. d'Abbe's word pictures.

Smallest particle of matter he knows of, This infinitesimally small universe here exists a universe like the terres- which Mr. d'Abbe has "discovered" he trial universe which modern science de- calls the infra-world, and the other, scribes to us, with syst ms of sun, stars, the infinitely large, the supra-world.

> ond the terrestrial universe there is nitude of space and time be reduced another universe so much larger than the the terrestrial universe as the terres- Bonth part, atoms become suns, trial universe is larger than the infinitrons, planets, and the one-five-hun

vances in his remarkable book, "Two New Worlds," recently published in

sense of debt, impossible to liquidate.

Like all things love and friendship have their limit and there is no surer means of undermining their fair's than by taking unnecessary liberties and in proportion the depth and sacredness of love should be properly guarded and in all conditions of life private, domestic, and public it is well to remember:

"Neither a horrower nor a lender be For loan oft loses both itself and friend.

And borrowing dulls the edge of husbandry."

—Shakespeare.

can be folded up when empty. These are contrivances of obvious usefulness in flats, as are likewise a bureau that becomes a writing table, a traveling bat turns into a bathtub, and a dressing table which, when pulled out from the wall, reveals a tub and all the other equipments of a bathroom.

Most women are very much afraid of fire, and thus it is not surprising to discover that they have patented a good many fire-escapes. Some of these take on queer disguissal one of these take on queer disguissal one of the sent is associated.

If on the other hand, the terrestrial universe were enlarged 10,000 trillion times larger than the electron. But the relation of the earth to the sun is mathematically exactly that of the electron to the atom with which it is associated.

If on the other hand, the terrestrial universe were enlarged 10,000 trillion times against the pushbutton and lead to discover that they have patented a good many fire-escapes. Some of these take on queer disguissal one of the second to the atom of the carth to the sun is mathematically exactly that of the electron to the atom exactly as the carth revolves around the sum. Mr. The modern theory of atoms and electrons retaining the first had one post, talk, because the carth revolves around the sum. Mr. The modern theory of atoms and electrons is, of course, that the electrons revolves around the sum. Mr. The modern theory of atoms and electrons is, of course, that the electrons retaining outside the front door, having a first the abortown that the course around the sum.

Stated in another way, Mr. d'Abbnd planets.

Let us also try to imagine that be- discovery is that if the scale of magtrial universe is larger than the infinitesimal universe hinted above. And beyond that other universes each just as much larger than the next below it. What then?

Then he will have some faint conception of the astounding theory of "world's within worlds," which E. E. one scale of being into the other.—Expanses in his remarkable book, "Two

## THE LAST STRAW.

## BORROWING Almost Always Costs Friends and So Does LENDING

customs which so frequently fect friendships and even and so belitting as the habit of borrowing. It is doubly pitiable, in so much as it is almost always unnecessary and no matter what the necesally more desirable than to incur feelings of obligation.

Business loans between friends are frequently peculiarly unfortunate, be- friend is to lend him money," has alcause the bitterness of possible com-plications is generally in proportion to all former love and it is decladely the part of wisdom and economy to em-

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than appeal to a friend, for in the former instance, there is no obligation, whereas in the latter, it can noz be reckoned, for there is no known to equalize sentiment and the mabear in mind that a forfeited friendship is a far dearer form of interest to pay than the highest commercial percentage.

The quotation, "The way to lose a most become a proverb and Thackeray speaks of the way in which a fivepound note will break up a balf can-

The inexperienced will unreservedly state that there is some abnormal weakness in a friendship, so easily affected, but inexplicable as it may seem, the fact remains that sooner or later such tests prove disastrous.

Have we not all heard such remarks as "That family owes its succuss in life to my father's generosity?" and no matter how punctilious the said "family" may have been in their payments and notwithstanding what numerous evidences of gratitude may have been shown, there is almost al ways an indescribably latent feeling of

while the other is ever conscious of a sense of debt, impossible to liquidate.

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